

UBESTA 3030 JI8

Polyamide 12

UBE Engineering Plastics, S.A.

Message:

UBESTA 3030 JI8 is a plasticized and impact modified PA12 grade with special low migration properties, providing long term plasticity. The grade is most suitable for pneumatic and airbrake tubing according SAE J844 and J1394.

General Information			
Additive	Impact modifier		
	Plasticizer		
Features	Impact modification		
	Plasticized		
	Impact resistance, good		
	Workability, good		
	Thermal stability, good		
Uses	Pipe fittings		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	4.0	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.5	%	ISO 294-4
Flow direction	0.50	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.60	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	53		ISO 2039-2
Durometer Hardness (Shore D)	69		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	30.0	MPa	ISO 527-2
Tensile Strain (Break)	200	%	ISO 527-2
Flexural Modulus	500	MPa	ISO 178
Flexural Stress	21.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, complete fracture	15	kJ/m ²	ISO 179/1eA
23°C, local fracture	110	kJ/m ²	ISO 179/1eA

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	90.0	°C	ISO 75-2/B
1.8 MPa, not annealed	50.0	°C	ISO 75-2/A
Melting Temperature (DSC)	175	°C	ISO 3146
CLTE - Flow	1.4E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Additional Information			

The value listed as Melting Temperature, ISO 3146, was tested in accordance with ISO 11357. Tensile Strain at Break, ISO 527: >200% Tensile Stress at Yield, ISO 527: >30 MPa Abrasion Loss, ISO 9352, CS-17, 1000 rev.: 8 mg

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